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RAW SEQUENCE LISTING

DATE: 05/21/2002

PATENT APPLICATION: US/09/939,833

TIME: 14:22:49

Input Set : N:\Crf3\RULE60\09939833.raw

Output Set: N:\CRF3\05212002\I939833.raw

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1 <110> APPLICANT: MCTIGUE, MICHELE A.
2     WICKERSHAM, JOHN A.
3     PINKO, CHRIS
4     SHOWALTER, RICHARD
5     PARAST, CAMRAN V.
6     TEMP CYZK-RUSSEL, ANNA
7     GEHRING, MICHAEL R.
8     MROCZKOWSKI, BARBARA
9     KAN, CHEN-CHEN
10    VILLA FRANCA, J. ERNEST
11    APPELT, KRZYSZTOF
12 <120> TITLE OF INVENTION: MODIFICATIONS OF THE VEGF RECEPTOR-2 PROTEIN AND
13    METHODS OF USE
14 <130> FILE REFERENCE: 0125-0016US
15 <140> CURRENT APPLICATION NUMBER: 09/939,833
16 <141> CURRENT FILING DATE: 2001-08-28
18 <150> PRIOR APPLICATION NUMBER: US/09/390,326
19 <151> PRIOR FILING DATE: 1999-09-07
21 <160> NUMBER OF SEQ ID NOS: 12
22 <170> SOFTWARE: PatentIn Ver. 2.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 31
26 <212> TYPE: DNA
27 <213> ORGANISM: Homo sapiens
28 <400> SEQUENCE: 1
29    cagcatatgg atccagatga actcccattg g                               31
31 <210> SEQ ID NO: 2
32 <211> LENGTH: 34
33 <212> TYPE: DNA
34 <213> ORGANISM: Homo sapiens
35 <400> SEQUENCE: 2
36    gcggctcgact taaacaggag gagagctcag tgtg                               34
38 <210> SEQ ID NO: 3
39 <211> LENGTH: 33
40 <212> TYPE: DNA
41 <213> ORGANISM: Homo sapiens
42 <400> SEQUENCE: 3
43    gcacatatgg aacgactgcc ttatgatgcc agc                               33
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46 <211> LENGTH: 38
47 <212> TYPE: DNA
48 <213> ORGANISM: Homo sapiens
49 <400> SEQUENCE: 4

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50      cctgtcgact tatccagaat cctcttccat gctcaaag
52 <210> SEQ ID NO: 5
53 <211> LENGTH: 317
54 <212> TYPE: PRT
55 <213> ORGANISM: Homo sapiens
56 <400> SEQUENCE: 5
57      Met Asp Pro Asp Glu Leu Pro Leu Asp Glu His Cys Glu Arg Leu Pro
58          1          5          10          15
59      Tyr Asp Ala Ser Lys Trp Glu Phe Pro Arg Asp Arg Leu Lys Leu Gly
60          20          25          30
61      Lys Pro Leu Gly Arg Gly Ala Phe Gly Gln Val Ile Glu Ala Asp Ala
62          35          40          45
63      Phe Gly Ile Asp Lys Thr Ala Thr Cys Arg Thr Val Ala Val Lys Met
64          50          55          60
65      Leu Lys Glu Gly Ala Thr His Ser Glu His Arg Ala Leu Met Ser Glu
66          65          70          75          80
67      Leu Lys Ile Leu Ile His Ile Gly His His Leu Asn Val Val Asn Leu
68          85          90          95
69      Leu Gly Ala Cys Thr Lys Pro Gly Gly Pro Leu Met Val Ile Val Glu
70          100         105         110
71      Phe Cys Lys Phe Gly Asn Leu Ser Thr Tyr Leu Arg Ser Lys Arg Asn
72          115         120         125
73      Glu Phe Val Pro Tyr Lys Glu Ala Pro Glu Asp Leu Tyr Lys Asp Phe
74          130         135         140
75      Leu Thr Leu Glu His Leu Leu Ile Cys Tyr Ser Phe Gln Val Ala Lys
76          145         150         155         160
77      Gly Met Glu Phe Leu Ala Ser Arg Lys Cys Ile His Arg Asp Leu Ala
78          165         170         175
79      Ala Arg Asn Ile Leu Leu Ser Glu Lys Asn Val Val Lys Ile Cys Asp
80          180         185         190
81      Phe Gly Leu Ala Arg Asp Ile Tyr Lys Asp Pro Asp Tyr Val Arg Lys
82          195         200         205
83      Gly Asp Ala Arg Leu Pro Leu Lys Trp Met Ala Pro Glu Thr Ile Phe
84          210         215         220
85      Asp Arg Val Tyr Thr Ile Gln Ser Asp Val Trp Ser Phe Gly Val Leu
86          225         230         235         240
87      Leu Trp Glu Ile Phe Ser Leu Gly Ala Ser Pro Tyr Pro Gly Val Lys
88          245         250         255
89      Ile Asp Glu Glu Phe Cys Arg Arg Leu Lys Glu Gly Thr Arg Met Arg
90          260         265         270
91      Ala Pro Asp Tyr Thr Thr Pro Glu Met Tyr Gln Thr Met Leu Asp Cys
92          275         280         285
93      Trp His Gly Glu Pro Ser Gln Arg Pro Thr Phe Ser Glu Leu Val Glu
94          290         295         300
95      His Leu Gly Asn Leu Leu Gln Ala Asn Ala Gln Gln Asp
96          305         310         315
98 <210> SEQ ID NO: 6
99 <211> LENGTH: 386
100 <212> TYPE: PRT

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101 <213> ORGANISM: E. coli
102 <400> SEQUENCE: 6
103   Asp Pro Met Gln Leu Pro Tyr Asp Ser Arg Trp Glu Phe Pro Arg Asp
104       1             5             10             15
105   Gly Leu Val Leu Gly Arg Val Leu Gly Ser Gly Ala Phe Gly Lys Val
106             20             25             30
107   Val Glu Gly Thr Ala Tyr Gly Leu Ser Arg Ser Gln Pro Val Met Lys
108             35             40             45
109   Val Ala Val Lys Met Leu Lys Pro Thr Ala Arg Ser Ser Glu Lys Gln
110             50             55             60
111   Ala Leu Met Ser Glu Leu Lys Ile Met Thr His Leu Gly Pro His Leu
112       65             70             75             80
113   Asn Ile Val Asn Leu Leu Gly Ala Cys Thr Lys Ser Gly Pro Ile Tyr
114             85             90             95
115   Ile Ile Thr Glu Tyr Cys Phe Tyr Gly Asp Leu Val Asn Tyr Leu His
116             100            105            110
117   Lys Asn Arg Asp Ser Phe Leu Ser His His Pro Glu Lys Pro Lys Lys
118             115            120            125
119   Glu Leu Asp Ile Phe Gly Leu Asn Pro Ala Asp Glu Ser Thr Arg Ser
120             130            135            140
121   Tyr Val Ile Leu Ser Phe Glu Asn Asn Gly Asp Tyr Met Asp Met Lys
122       145            150            155            160
123   Gln Ala Asp Thr Thr Gln Tyr Val Pro Met Leu Glu Arg Lys Glu Val
124             165            170            175
125   Ser Lys Tyr Ser Asp Ile Gln Arg Ser Leu Tyr Asp Arg Pro Ala Ser
126             180            185            190
127   Tyr Lys Lys Lys Ser Met Leu Asp Ser Glu Val Lys Asn Leu Leu Ser
128             195            200            205
129   Asp Asp Asn Ser Glu Gly Leu Thr Leu Leu Asp Leu Leu Ser Phe Thr
130       210            215            220
131   Tyr Gln Val Ala Arg Gly Met Glu Phe Leu Ala Ser Lys Asn Cys Val
132       225            230            235            240
133   His Arg Asp Leu Ala Ala Arg Asn Val Leu Leu Ala Gln Gly Lys Ile
134             245            250            255
135   Val Lys Ile Cys Asp Phe Gly Leu Ala Arg Asp Ile Met His Asp Ser
136             260            265            270
137   Asn Tyr Val Ser Lys Gly Ser Thr Phe Leu Pro Val Lys Trp Met Ala
138             275            280            285
139   Pro Glu Ser Ile Phe Asp Asn Leu Tyr Thr Thr Leu Ser Asp Val Trp
140             290            295            300
141   Ser Tyr Gly Ile Leu Leu Trp Glu Ile Phe Ser Leu Gly Gly Thr Pro
142       305            310            315            320
143   Tyr Pro Gly Met Met Val Asp Ser Thr Phe Tyr Asn Lys Ile Lys Ser
144             325            330            335
145   Gly Tyr Arg Met Ala Lys Pro Asp His Ala Thr Ser Glu Val Tyr Glu
146             340            345            350
147   Ile Met Val Lys Cys Trp Asn Ser Glu Pro Glu Lys Arg Pro Ser Phe
148             355            360            365
149   Tyr His Leu Ser Glu Ile Val Glu Asn Leu Leu Pro Gly Gln Tyr Lys

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150          370          375          380
151      Lys Ser
152      385
154 <210> SEQ ID NO: 7
155 <211> LENGTH: 310
156 <212> TYPE: PRT
157 <213> ORGANISM: Homo sapiens
158 <400> SEQUENCE: 7
159      Met Leu Ala Gly Val Ser Glu Tyr Glu Leu Pro Glu Asp Pro Arg Trp
160          1          5          10          15
161      Glu Leu Pro Arg Asp Arg Leu Val Leu Gly Lys Pro Leu Gly Glu Gly
162          20          25          30
163      Cys Phe Gly Gln Val Val Leu Ala Glu Ala Ile Gly Leu Asp Lys Asp
164          35          40          45
165      Lys Pro Asn Arg Val Thr Lys Val Ala Val Lys Met Leu Lys Ser Asp
166          50          55          60
167      Ala Thr Glu Lys Asp Leu Ser Asp Leu Ile Ser Glu Met Glu Met Met
168          65          70          75          80
169      Lys Met Ile Gly Lys His Lys Asn Ile Ile Asn Leu Leu Gly Ala Cys
170          85          90          95
171      Thr Gln Asp Gly Pro Leu Tyr Val Ile Val Glu Tyr Ala Ser Lys Gly
172          100          105          110
173      Asn Leu Arg Glu Tyr Leu Gln Ala Arg Arg Pro Pro Gly Leu Glu Tyr
174          115          120          125
175      Cys Tyr Asn Pro Ser His Asn Pro Glu Glu Gln Leu Ser Ser Lys Asp
176          130          135          140
177      Leu Val Ser Cys Ala Tyr Gln Val Ala Arg Gly Met Glu Tyr Leu Ala
178          145          150          155          160
179      Ser Lys Lys Cys Ile His Arg Asp Leu Ala Ala Arg Asn Val Leu Val
180          165          170          175
181      Thr Glu Asp Asn Val Met Lys Ile Ala Asp Phe Gly Leu Ala Arg Asp
182          180          185          190
183      Ile His His Ile Asp Tyr Tyr Lys Lys Thr Thr Asn Gly Arg Leu Pro
184          195          200          205
185      Val Lys Trp Met Ala Pro Glu Ala Leu Phe Asp Arg Ile Tyr Thr His
186          210          215          220
187      Gln Ser Asp Val Trp Ser Phe Gly Val Leu Leu Trp Glu Ile Phe Thr
188          225          230          235          240
189      Leu Gly Gly Ser Pro Tyr Pro Gly Val Pro Val Glu Glu Leu Phe Lys
190          245          250          255
191      Leu Leu Lys Glu Gly His Arg Met Asp Lys Pro Ser Asn Cys Thr Asn
192          260          265          270
193      Glu Leu Tyr Met Met Met Arg Asp Cys Trp His Ala Val Pro Ser Gln
194          275          280          285
195      Arg Pro Thr Phe Lys Gln Leu Val Glu Asp Leu Asp Arg Ile Val Ala
196          290          295          300
197      Leu Thr Ser Asn Gln Glu
198          305          310
200 <210> SEQ ID NO: 8

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Input Set : N:\Crif3\RULE60\09939833.raw

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201 <211> LENGTH: 297
202 <212> TYPE: PRT
203 <213> ORGANISM: Homo sapiens
204 <400> SEQUENCE: 8
205   Val Phe Pro Cys Ser Val Tyr Val Pro Asp Glu Trp Glu Val Ser Arg
206       1             5             10             15
207   Glu Lys Ile Thr Leu Leu Arg Glu Leu Gly Gln Gly Ser Phe Gly Met
208               20             25             30
209   Val Tyr Glu Gly Asn Ala Arg Asp Ile Ile Lys Gly Glu Ala Glu Thr
210       35             40             45
211   Arg Val Ala Val Lys Thr Val Asn Glu Ser Ala Ser Leu Arg Glu Arg
212       50             55             60
213   Ile Glu Phe Leu Asn Glu Ala Ser Val Met Lys Gly Phe Thr Cys His
214       65             70             75             80
215   His Val Val Arg Leu Leu Gly Val Val Ser Lys Gly Gln Pro Thr Leu
216               85             90             95
217   Val Val Met Glu Leu Met Ala His Gly Asp Leu Lys Ser Tyr Leu Arg
218               100            105            110
219   Ser Leu Arg Pro Glu Ala Glu Asn Asn Pro Gly Arg Pro Pro Pro Thr
220               115            120            125
221   Leu Gln Glu Met Ile Gln Met Ala Ala Glu Ile Ala Asp Gly Met Ala
222               130            135            140
223   Tyr Leu Asn Ala Lys Lys Phe Val His Arg Asp Leu Ala Ala Arg Asn
224       145            150            155            160
225   Cys Met Val Ala His Asp Phe Thr Val Lys Ile Gly Asp Phe Gly Met
226               165            170            175
227   Thr Arg Asp Ile Tyr Glu Thr Asp Tyr Tyr Arg Lys Gly Gly Lys Gly
228               180            185            190
229   Leu Leu Pro Val Arg Trp Met Ala Pro Glu Ser Leu Lys Asp Gly Val
230       195            200            205
231   Phe Thr Thr Ser Ser Asp Met Trp Ser Phe Gly Val Val Leu Trp Glu
232       210            215            220
233   Ile Thr Ser Leu Ala Glu Gln Pro Tyr Gln Gly Leu Ser Asn Glu Gln
234       225            230            235            240
235   Val Leu Lys Phe Val Met Asp Gly Gly Tyr Leu Asp Gln Pro Asp Asn
236               245            250            255
237   Cys Pro Glu Arg Val Thr Asp Leu Met Arg Met Cys Trp Gln Phe Asn
238               260            265            270
239   Pro Asn Met Arg Pro Thr Phe Leu Glu Ile Val Asn Leu Leu Lys Asp
240       275            280            285
241   Asp Leu His Pro Ser Phe Pro Glu Val
242       290            295
244 <210> SEQ ID NO: 9
245 <211> LENGTH: 367
246 <212> TYPE: PRT
247 <213> ORGANISM: Homo sapiens
248 <400> SEQUENCE: 9
249   Met Asp Pro Asp Glu Val Pro Leu Asp Glu Gln Cys Glu Arg Leu Pro
250       1             5             10             15

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VERIFICATION SUMMARY

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